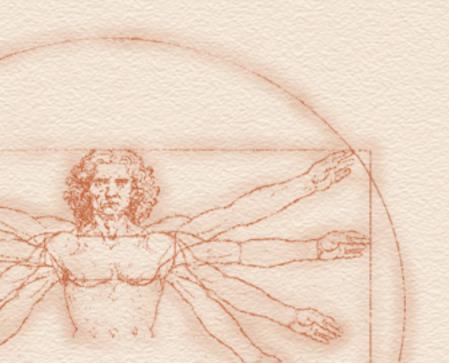


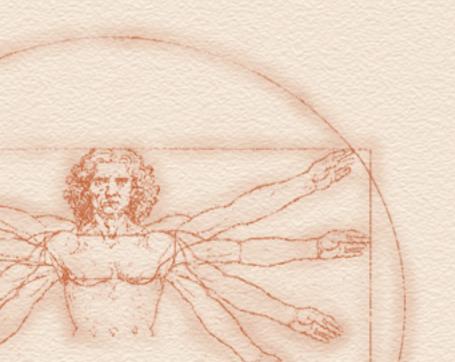
Musculoskeletal Disorders (MSDs)

- #1 injury in American workplaces
- More than 1/3 of lost-workday injuries
- Painful to workers; costly to employers



Ergonomics

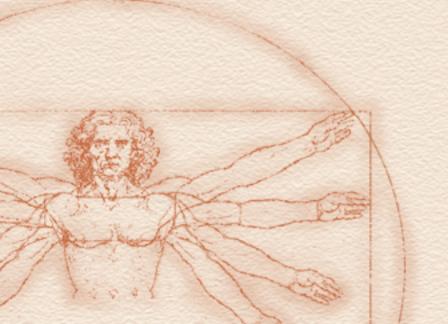
- Fitting the job to the worker
- Solution to MSDs
- Higher productivity, increased job satisfaction



MSDs

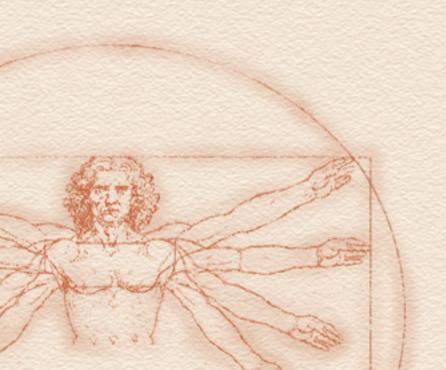
- 1.8 million reported each year
- 1.8 million unreported each year
- 600,000 lost-workday injuries

Source: Bureau of Labor Statistics



OSHA Ergonomics Program Standard Each Year Will

- Prevent 460,000 injuries
- Save \$9.1 billion
- Cost \$4.5 billion



Covers General Industry

- 6.1 million workplaces
- 102 million workers

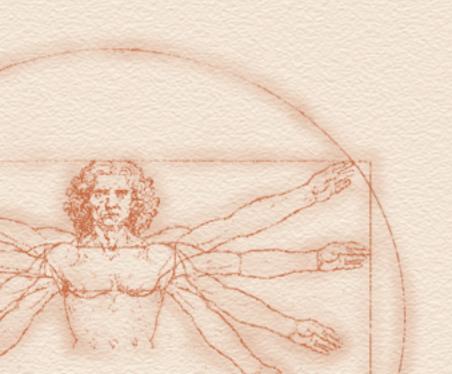
 (60 million at sites that haven't addressed ergonomics)

Excludes construction, maritime, agriculture and railroads



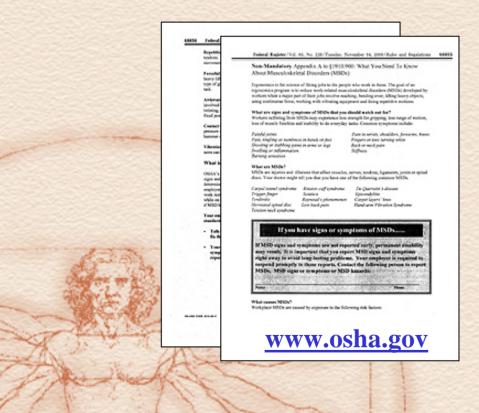
All Employers Must

- Provide basic information to employees on MSDs
- By October 15, 2001



Basic Information

- Optional 2-page fact sheet
- Optional ergonomics standard summary



The final Beginner (Vol. 10, No. 2011 Function, November 11, 2000 Finder and Depolations: \$10.000 Finder and Depolations of the STMA Supermitter Property Technical States of the STMA Supermitter (STMA Supermitter States) and the STMA Supermitter States of the STMA Supermitter States of the STMA Supermitter STMA Supermitter (STMA Supermitter STMA SUPERMITTER STMAN SUPERMITT

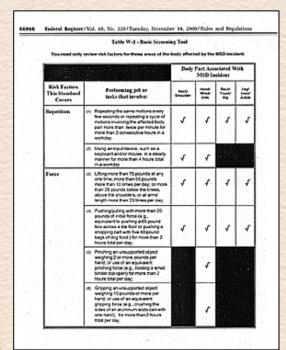
Injury Reports

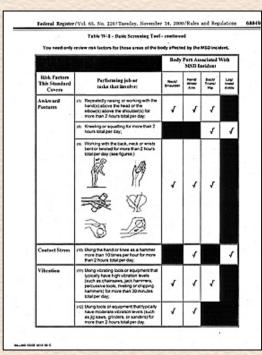
- Is it an MSD incident?
 - Work-related?
 - Days off work?
 - Restricted work/treatment beyond first aid?
 - Persistent signs/symptoms?
- Employer may consult health care professional



Does the Job Meet the Action Trigger?

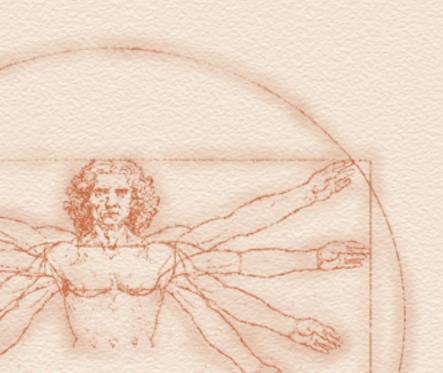
- Basic Screening Tool Five Risk Factors At least once per week:
 - Repetition
 - Force
 - AwkwardPostures
 - Contact Stress
 - Vibration





Risk Factor: Repetition

- Same motions every few seconds
- 2 consecutive hours per day

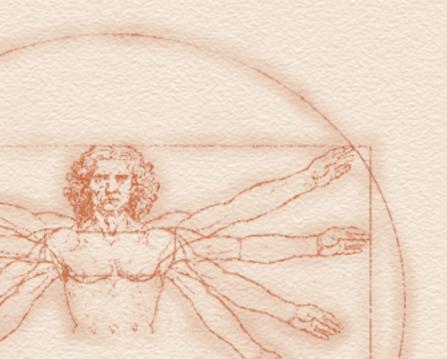




Risk Factor: Repetition

- Intensive keyboarding
- 4 hours total per day





Risk Factor: Force

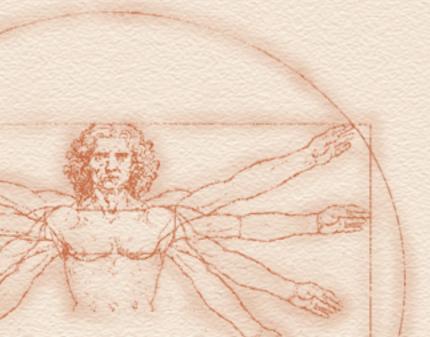
- Lifting (daily)
 - -75 lbs. once
 - 55 lbs. 10 times
 - 25 lbs. (awkward postures)25 times
- Pushing/pulling
 (20 lbs. force)
 - 2 hours total per day



Risk Factor: Force (2 Hours Per Day)

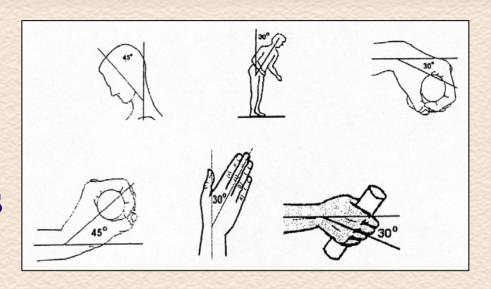
- Pinching (unsupported 2 lb. object)
- Gripping (unsupported 10 lb. object)

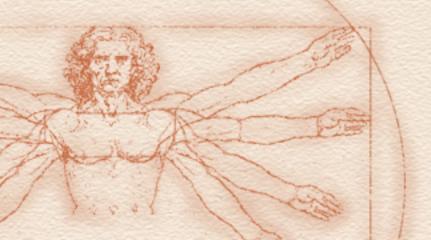




Risk Factor: Awkward Postures (2 Hours Per Day)

- Back, neck, or wrists bent/twisted
- Kneeling/squatting
- Working with hands above head or elbows above shoulders

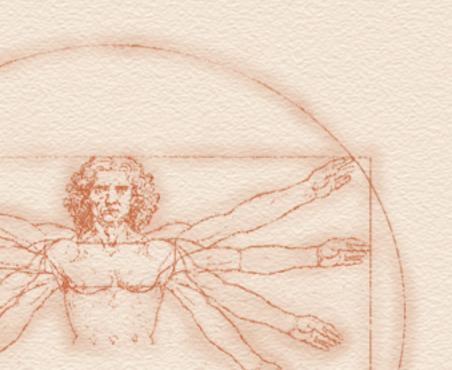




Risk Factor: Contact Stress (2 Hours Per Day)

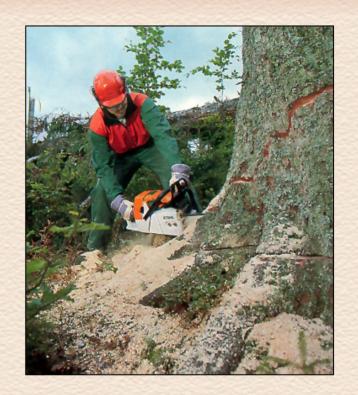
 Using hand/knee as hammer more than 10 times per hour

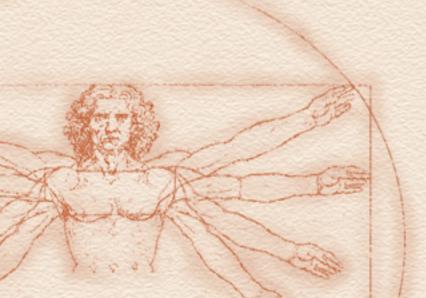




Risk Factor: Vibration

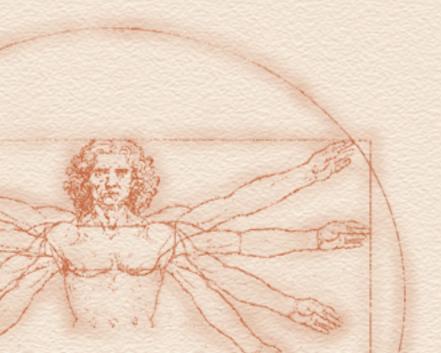
- Using high-vibration tools (chain saws, jack hammers, percussive tools)
- 30 minutes per day

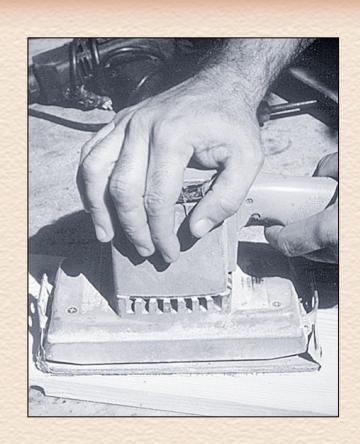




Risk Factor: Vibration

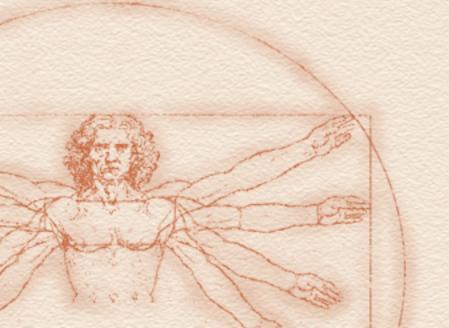
 Using moderate vibration tools (jig saws, grinders, sanders) 2 hours per day





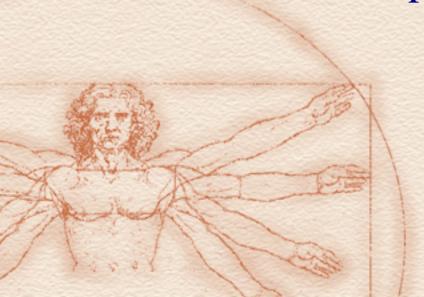
Risk Factor

- If job includes a risk factor in the basic screening tool, it meets the action trigger and the employer must:
 - Do a "Quick Fix"
 - Or establish an ergonomics program for that job and further analyze the job to see if it must be fixed.



Quick Fix

- Problem can be resolved in 90 days
- Only 1 MSD, no more than 2 MSDs at site in 18 months. Applies to all workers in the same job within that facility. Can be limited to one employee if the MSD hazard only exists for that employee.



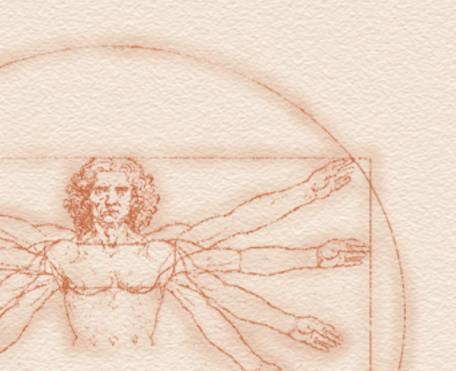
Ergonomics Program (Job-Based)

- Management leadership and employee participation
- Job hazard analysis and control
- Training
- MSD management
- Program evaluation



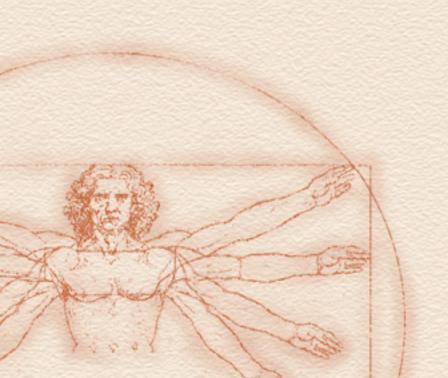
Grandfather Clause for Ergonomics Programs

- Implemented before Nov. 14, 2000
- Evaluated by Jan. 16, 2001
- Incorporate MSD management by Jan. 16, 2002



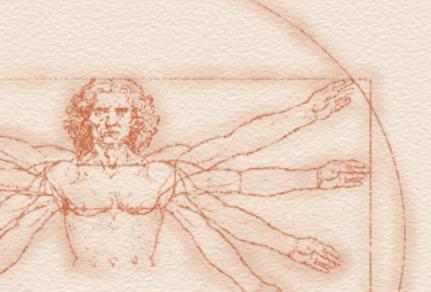
Job Hazard Analysis

- Evaluate job that meets the action trigger
- Use one of 9 evaluation tools in Appendix D or other effective method



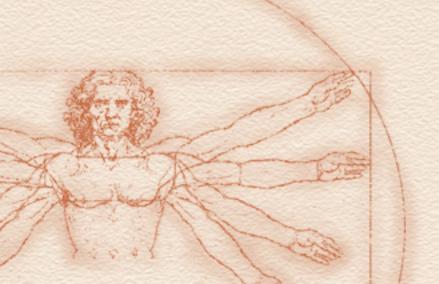
Problem Job

- If analysis indicates a "problem job," consult employees and fix it.
 - 90 days for initial controls
 - Up to 2 years for permanent controls;
 (4 years in the phase-in period)
- Otherwise, maintain ergonomics program.



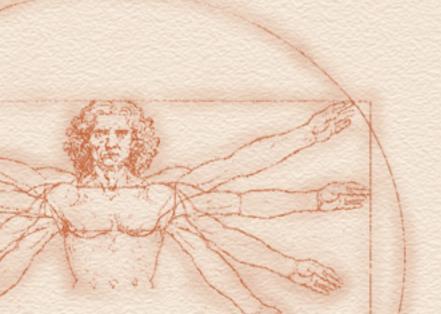
MSD Management

- For MSD incidents where job meets the action trigger, employer must provide:
 - Access to a health care professional
 - Evaluation and follow-up
 - Work restrictions if necessary
 - Work Restriction Protection



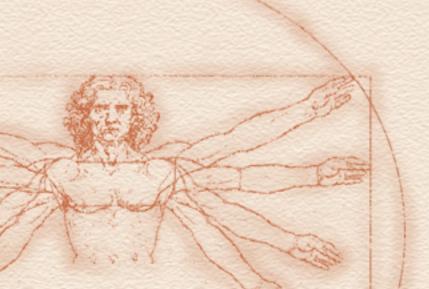
Work Restriction Protection (WRP)

- Encourages early reporting
- Reduces risk of disability
- Limits financial loss to worker
- Includes dispute resolution process if health care professionals disagree



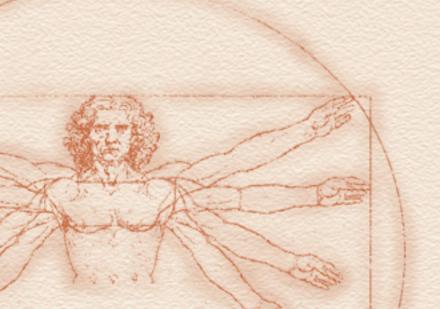
WRP

- Light duty—100 percent earnings, 100 percent benefits
- Home to recover—90 percent earnings, 100 percent benefits
- Offset by workers' compensation, option to use sick leave



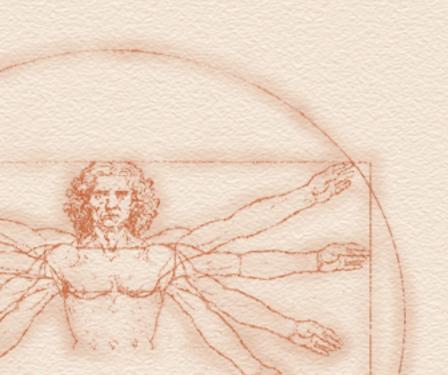
WRP Continues Until

- Employee can safely return to work
- Health care professional determines employee can never return to that job
- 90 calendar days have passed
- ... whichever comes first.



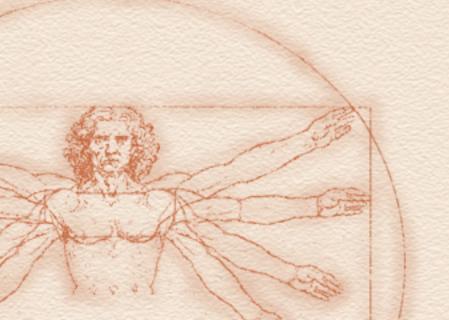
Good Ergonomics Is Good Economics

- There are many solutions to work-related problems.
- Jobs that are fixed will keep future employees from developing injuries.



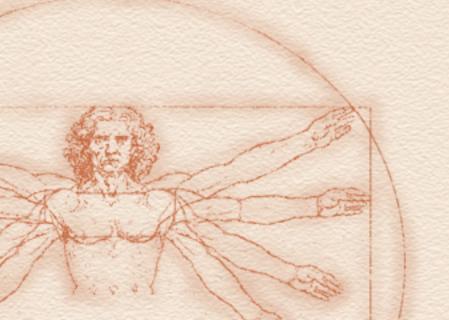
Action: A Bakery redesigned its workstations and modified its tools.

Results: Absenteeism related to carpal tunnel syndrome decreased from 731 lost workdays to 8 lost workdays.



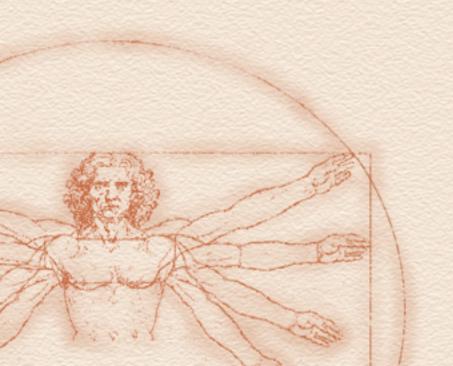
Action: A Nursing Home set up a mandatory "no single person lift" policy, and purchased mechanical lift equipment for use in all resident transfers.

Results: Cut lost workdays by 80 percent.



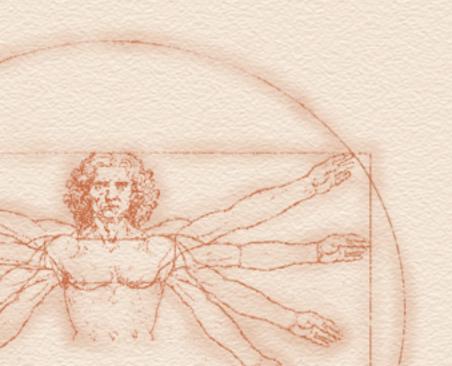
Action: An Oil Refinery added platforms, installed hoists over work tables, and conducted back injury training.

Results: Injury rates dropped by 90 percent.

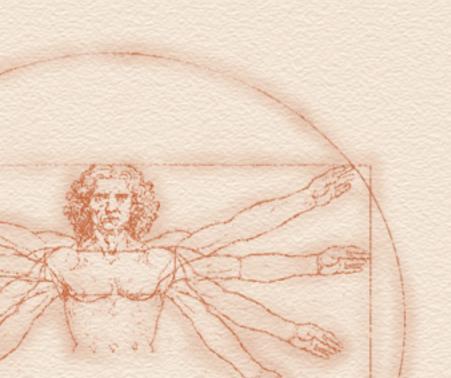


Action: A Copying Machine Control Assembly Company replaced standard workbenches with an adjustable stand.

Results: MSD rate declined by 50 percent.



Ergonomics is a step forward for both employers and employees.



Additional Help

- See OSHA's website at www.osha.gov for
 - Publications
 - Interactive tools
 - Links to helpful websites
- Also see NIOSH's website - National Institute for Occupational Safety and Health - www.cdc.gov/niosh/homepage.html



Ergonomics:

Real People

Real Problems

Real Solutions